CIVIL TECH LABS

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Project Division, BBMP
Name of Work	Increasing the impounding capacity of Allasandra lake and allied works.
Name of Agency	M/s. Parichitha Constructions
Grade of Concrete	M-20
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 mm²
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	Sample-3	11/11/2014	09/12/2014	28	8.17	470	**20.89**	**21.33**
2					8.19	480	**21.33**	
3					8.20	490	**21.78**	

Note:

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Project Division, BBMP
Name of Work	Increasing the impounding capacity of Allasandra lake and allied works.
Name of Agency	M/s. Parichitha Constructions
Grade of Concrete	M-20
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 mm²
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	Sample-4	11/11/2014	09/12/2014	28	8.19	480	**21.33**	**21.56**
2					8.20	485	**21.56**	
3					8.21	490	**21.78**	

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Project Division, BBMP
Name of Work	Increasing the impounding capacity of Allasandra lake and allied works.
Name of Agency	M/s. Parichitha Constructions
Grade of Concrete	M-20
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 mm²
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	Sample-2	11/11/2014	09/12/2014	28	8.18	480	**21.33**	**21.56**
2					8.19	485	**21.56**	
3					8.20	490	**21.78**	

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Project Division, BBMP
Name of Work	Increasing the impounding capacity of Allasandra lake and allied works.
Name of Agency	M/s. Parichitha Constructions
Grade of Concrete	M-20
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 mm²
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	Sample-1	11/11/2014	09/12/2014	28	8.17	475	**21.11**	**21.56**
2					8.18	485	**21.56**	
3					8.20	495	**22.00**	

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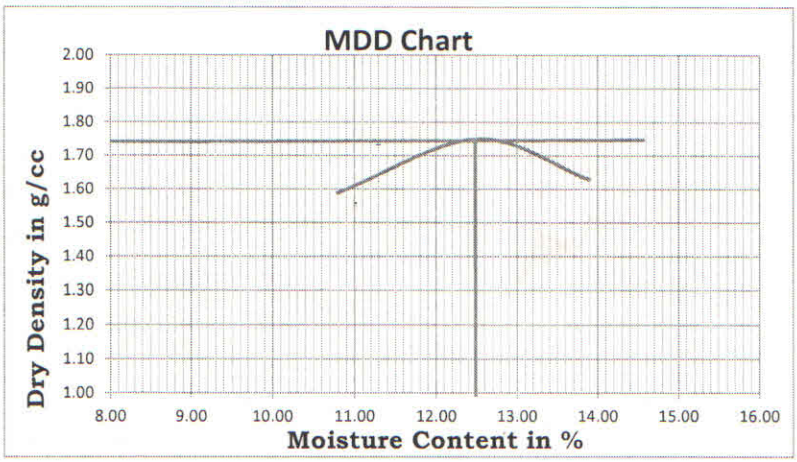
TEST REPORT

LABORATORY MDD TEST ON GRAVEL

Name & Address of the Customer	AEE, Project Division, BBMP
Name of Work	Increasing the impounding capacity of Allasandra lake and allied works.
Name of Agency	M/s. Parichitha Constructions
Date of Testing	05/11/2014
Technical Reference	IS : 2720 (Part 8)-1983 (Reaffirmed 2010)

LABORATORY MAXIMUM DRY DENSITY		
TYPE OF COMPACTION	**LABORATORY MDD in g/cc**	**OPTIMUM MOISTURE CONTENT (OMC) in %**
Modified Proctor Compaction	**1.75**	**12.5**



Trial	Moisture Content (%)	Dry Density (g/cc)
1	10.80	1.59
2	12.50	1.75
3	13.90	1.63

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TEST REPORT

TEST ON CEMENT

Name & Address of the Customer	AEE, Project Division, BBMP
Name of Work	Increasing the impounding capacity of Allasandra lake and allied works.
Name of the Agency	M/s. Parichitha Constructions
Date of Testing	04/11/2014

Tests	**Test Method As Per IS & Apparatus**		**Results**		**Requirements As Per IS 8112:1989**	**Remarks**
	IS Code	**Method**	**Value**	**Unit**		
Initial Setting Time	**IS-4031 (Part-5) 1988**	VICAT	54	min	Not Less Than 30 Minutes	Satisfies Requirement
Final Setting Time	**IS-4031 (Part-5) 1988**	VICAT	485	min	Not More Than 600 Minutes	Satisfies Requirement
Soundness	**IS-4031 (Part-3) 1988**	LE-CHATELIER	3	mm	Not More Than 10 mm	Satisfies Requirement

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TEST REPORT

TEST ON FINE AGGREGATES Ref:IS:383/2386

Name & Address of the Customer	AEE, Project Division, BBMP
Name of Work	Increasing the impounding capacity of Allasandra lake and allied works.
Name of the Agency	M/s. Parichitha Constructions
Date of Testing	04/11/2014
Specific Gravity	**2.57**

Sample	IS Sieve designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970				Grading Zone
			ZONE-I	ZONE-II	ZONE-III	ZONE-IV	
River Sand	10	**100**	100	100	100	100	II
	4.75	**98.4**	90-100	90-100	90-100	95-100	
	2.36	**83.6**	60-95	75-100	85-100	95-100	
	1.18	**74.2**	30-70	55-90	75-100	90-100	
	0.6	**48.6**	15-34	35-59	60-79	80-100	
	0.3	**25.3**	5-20	8-30	12-40	15-50	
	0.15	**8.3**	0-10	0-10	0-10	0-15	

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TEST REPORT

TEST ON COARSE AGGREGATES 20mm ↓ Graded Ref:IS:383/2386

Name & Address of the Customer	AEE, Project Division, BBMP
Name of Work	Increasing the impounding capacity of Allasandra lake and allied works.
Name of the Agency	M/s. Parichitha Constructions
Date of Testing	04/11/2014
Specific Gravity	**2.63**
Water Absorption in %	**0.33**

IS Sieve Designation (mm)	**Sieve Analysis (% Passing IS Sieve)**	**Grading Requirement as per IS:383-1970 (Reaffirmed 2011)**	**Remarks**
40	**100**	100	**Satisfies the requirement**
20	**98.4**	95-100	
10	**42.6**	25-55	
4.75	**8.4**	0-10	

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TEST REPORT

TEST ON CEMENT CONCRETE PAVER BLOCKS

Name & Address of the Customer	AEE, Project Division, BBMP
Name of work	Increasing the impounding capacity of Allasandra lake and allied works.
Name of the Agency	M/s. Parichitha Constructions
Grade of Concrete	M-35
No. of Paver Blocks tested	8
Technical Reference	IS: 15658 : 2006

Compressive Strength

Sl.No	Date of Testing	Paver Block Type	Block Thickness in cms	Plan Area in mm²	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	04/11/2014	I type design	65.32	27485	990	**36.02**	36.51
2			60.5	27484	1100	**40.02**	
3			60.6	27459	1000	**36.42**	
4			60.3	27511	990	**35.99**	
5			60.4	27519	980	**35.61**	
6			60.2	27488	970	**35.29**	
7			60.3	27499	1000	**36.36**	
8			60.4	27482	1000	**36.39**	

Water Absorption

Sl.No	Date of Testing	Water Absobtion (% by weight)	Average (% by Wt.)	Requirements as per IS: 15658 : 2006
1	04/11/2014	5.6	5.70	When three units are tested the average water absorption shall not be more than 6% by mass and in individual samples, the water absorption should be restricted to 7 percent.
2		5.8		
3		5.7		

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Project Division, BBMP
Name of Work	Increasing the impounding capacity of Allasandra lake and allied works.
Name of Agency	M/s. Parichitha Constructions
Grade of Concrete	M-15
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 mm²
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	CC-Work (Kerb)	08/11/2014	06/12/2014	28	8.18	356	**15.82**	**16.03**
2					8.19	362	**16.09**	
3					8.20	364	**16.18**	

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